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# TECH NEWS



VOL. XI

WORCESTER, MASS., JUNE 15, 1920

NO. 32

## URGES SERVICE ON TECH GRADUATES FOUR CUPS OFFERED IN TECH DRIVE

### Reverend Dr. Savage Preaches Commencement Sermon

Declaring that "the day of the merely successful business man has passed and it is coming more and more to be in America that the greatest shall be the servant of all," the Rev. Dr. Maxwell Savage of the First Unitarian church urged the graduating class, in his baccalaureate sermon preached to them Sunday, to realize at the outset of their careers that only true religion practiced in obedience to God and service to humanity can bring success. The service was held in Central Congregational church at 4 o'clock Sunday afternoon.

Preceding the service, President and Mrs. Hollis gave a short reception to the baccalaureate preacher, the trustees, the faculty and the graduating class. The academic procession formed in front of the president's home on Boynton street, and marched to the church.

The Rev. Dr. Shepherd Knapp had charge of the service and the choir gave a special musical program. Rev. Dr. Knapp, who is a trustee of the Institute, President Hollis, and representatives of the trustees and faculty were seated in the chancel.

"Works without faith are short lived and only for a day," said the Rev. Dr. Savage. The only way that mankind succeeds in the physical, mental or moral realms is by learning God's laws and obeying them.

"Nature is not enough in solving these problems. Nature is neither moral or immoral. All problems are normal and never will be settled right until settled in terms of morality."

### STUDENT BRANCH OF A. S. M. E. HOLDS ANNUAL MEETING

The Student Branch of the A. S. M. E. held its last meeting of the year in the M. E. Lecture Room on Friday evening, May twenty-first. The chief business of the meeting was the election of officers for the coming year. The following men were chosen:

President—R. W. Perry, '21.

Vice President—W. C. Marcus, '21.

Treasurer—W. S. Titcomb, '21.

Secretary—J. H. Carter, '20.

After the elections several of the senior mechanics gave talks on their theses. Lawrence Bean spoke on "Bearing Metals," M. W. Garland on "Fixing the Selling Price of Machine Tools by Index Numbers," and A. W. Bassett on "Heat Treatment Effects on Corno High Speed Steel."

The meeting then adjourned to the M. E. Library, where light refreshments were enjoyed and plans for the activities of the society next year informally discussed.

### CHEMISTRY NOTES

A meeting of the New England Association of Chemistry Teachers was held at W. P. I. on Saturday. Forty-five members attended. During the morning an industrial trip was enjoyed through the Graton & Knight Mfg. Co. through the courtesy of Mr. Small, chief chemist, Graton & Knight Mfg. Co. Lunch was furnished by the Institute in the Gymnasium at one o'clock. After

lunch the party adjourned to the lecture room on the third floor, Salisbury Laboratories, where a short business meeting was held. Mr. F. H. Small then gave an address on the "Making of Leather" and Professor J. B. Zinn of the Chemistry Dept., spoke on "The Supply and Demand of Nitrogen Compounds."

Ralph F. Tenney, Graduate Assistant in the Department of Chemistry, has been appointed an instructor in the Massachusetts Institute of Technology School of Chemical Engineering Practice. He will be located at the Buffalo, N. Y., Station, where the work of the school is carried on at the Carborundum Company, the Larkin Company and the Lackawanna Steel Company.

### TENNIS RANKING SHIFTS

The present ranking of the school's first eighteen players is radically different from that which was first posted, as was to be expected. Several new names are on the list, while most of the others have changed places several times. The ranking now stands:

1. Currier	10. Sessions
2. Chen	11. Briggs
3. Chapman	12. Whitmore
4. Bijur	13. Ellsworth
5. Amsden	14. Gilbert
6. Wyllie	15. Agar
7. Keith	16. Pearson
8. Perry, K. R.	17. Russell, A. W.
9. Woodward	18. Thayer

### Graduates Will Give Trophies to Classes with Best Record

Four cups have been offered in connection with the drive for \$2,000,000 endowment fund at Tech. The first class to reach 100 per cent. which means a subscription from every one of its members will receive the cup offered by Henry J. Fuller, '95, son of the late President Homer T. Fuller of Tech.

Aldus C. Higgins, '93, of Worcester, offers a cup to be awarded to the class securing the largest amount in subscriptions from its members before June 10th, commencement day.

R. Sanford Riley, '96, of Worcester will give a cup to the class for the largest total of subscriptions outside of its members.

The class having the largest grand total of subscriptions from its members commencement day will be awarded the cup offered by Paul Morgan, '90. The cups will be placed in the Alumni Gymnasium.

The class of '89 has challenged '88, '90 and '91 to a four cornered race for endowment fund subscriptions.

### BASEBALL SEASON ENDS WITH LOSS

#### Springfield on Big End of 50 Score

On Thursday, May 20, Springfield Y. M. C. A. College defeated Tech in baseball by a score of 5-0. Hitting was scarce, Tech getting only two safe ones, while their opponents garnered six.

Tech was dangerous in the second inning, when Titcomb started off with a walk, went to second on a passed ball, and to third on Dick Mason's single. Mason then stole second, and with none out chances for some scoring were bright. Twombly tightened up here and struck out the next three men. In the third inning Campbell hit safely and stole second with two out, but got no further. No other Tech men reached second during the game.

Springfield scored first in the second inning, when an error and three hits, one a double, netted them three runs. Another double and an error in the third gave them another run. The fifth counter came in the sixth inning on an error and a hit.

The box score follows:

WORCESTER		ab	r	h	po	a	e
Meyer rf		4	0	0	1	0	0
Campbell, lf		4	0	1	3	0	0
Mason, J., 2b		4	0	0	1	2	0
Titcomb, 1b		2	0	0	5	1	1
Berry 1b		0	0	0	3	0	0
Mason, F., c		3	0	1	6	0	0
Kittredge ss		3	0	0	0	0	0
Morse 3b		3	0	0	2	1	2
Hunt p		3	0	0	3	5	1
Marsh, cf		2	0	3	3	0	0
Murphy cf		1	0	0	0	0	0
Totals		29	0	2	27	9	4
SPRINGFIELD		ab	r	h	po	a	e
Norfeldt lf		3	0	1	3	0	0

Bennett 3b	4	0	1	0	1	0
Kallor 2b	5	0	2	1	1	0
Holson c	3	1	1	10	0	0
Walsh c	0	0	0	4	0	0
Zeigler cf	5	0	0	0	0	0
McCarrar ss	4	0	1	0	1	0
Carling ss	0	0	0	0	0	0
Fink rf	4	1	0	1	0	0
Maynard 1b	4	2	0	7	0	0
Morin 1b	0	0	0	1	0	0
Twombly p	4	1	0	0	2	0

Totals 37 5 6 27 5 0

Two-base hits: Norfeldt, Holson. Struck out: by Hunt 6, by Twombly 9. Bases on balls: off Hunt 4, off Twombly 1. Passed balls: Holson. Hit by pitched ball: by Hunt, Norfeldt and Bennet. Umpire: Mr. Beaulac.

### SOPHOMORES WIN, 5-2

The third and last game of the three-game baseball series between the Freshmen and Sophomores was played on Tuesday, May 18, and resulted in a victory for the second-year men by a score of 5 to 2. The game was loosely played on both sides, most of the runs being made through errors. The batteries were Bateson and Flynn, '23, and Stevens and Mason, '22. The batting of McGlinchy and Coe featured. The game was the deciding one of the series, each team having previously won one.

### ALUMNI NOTES

Everett F. King, 1917, has changed his place of business and is now with the B. F. Goodrich Tire Co. of Akron, Ohio. He is connected with the Accident, Prevention and Sanitation Dept. Harry L. Mirick, 1919, is now working at 172 Fulton street, Room 51, New York City.

# TECH NEWS

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K. R. Bourne, '23 E. B. Coghlin, '23  
A. A. Gordon, 3rd, '22

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JUNE 15, 1920

## BOOST TECH

### EDITORIAL

The Class of 1920 has passed on, and the school year of 1919-1920 is ended. A brief review of Tech's successes and failures in that year may not be out of place here.

Starting out with one of the biggest enrollments in her history, numbering many ex-service men among those present, Tech's outlook last fall in every line seemed to be the brightest possible. In football, however, we sustained our first setback, the season being far from successful, due to the unfortunate combination of a strong schedule, many injuries, some ineligibility, and some dissension. Following this came a very successful basketball season, boosting our hopes and our reputation in a considerable degree. But baseball, coming next, was comparable to football as far as being a successful season is concerned. Track was much more satisfactory.

In non-athletic lines, better luck has been our portion. The NEWS itself has finished a very successful season, the Musical Association never has had as much money in the treasury before, while the Dramatic Association, although unimproved financially, put on a show that all were proud of. In scholarship, it is our opinion that the past year was a poor one. Many men have left school, and many others have drawn down flunks in one or more subjects.

It is plain where we must improve next year. Our major sports must take a decided brace or there will be no advantage to us in continuing them. And scholarship will have to be jacked up considerably in order that the school will not lose so many men. The effects of the war are still apparent, either in the lack of concentration and the desire for pleasure first, last and all the time on the part of the younger classes, or their poorer preparation for advanced work.

Let us then, during the summer lay-off, make our plans for the coming year. Harder and better planned studying, more interest in activities, more intense school spirit, a desire to stay in Tech and to put Tech on the map as well, cannot help but mean an improvement all around. Too many men come to Tech with the intention of transferring to some other institution later. What we want are men who come here determined to finish here, and who at the same time will sacrifice some of their time for the good of the school. Make up your minds now to be in this class next year.

### 1920 A UNIQUE CLASS

1920 entered Tech with about 180 men. The class which graduated last Thursday numbered 92, the largest number of men ever graduated from W. P. I. Probably not more than half of these were originally members of this class, the others being from the classes of 1918 and 1919, many of whom left school to enter the service, coming back to finish their work with the outgoing class. In the same way, many members of 1920 are now with 1921, having been unable to complete their interrupted course in time to graduate with their original classmates. Altogether, 256 men have been registered under the 1920 banner, a number which gives a good idea of the havoc war played with the class. Of the large number who left the class to enter the service, only one man was killed, Almon K. Lincoln, president of the class in his second year.

The officers of the class were:  
Malcolm B. Arthur, President.  
George L. White, Vice President.  
Harold G. Hunt, Treasurer.  
Merle C. Cowden, Secretary.

### Y. M. C. A. NOTES

M. C. Goddard, '21, has been appointed on the cabinet as head of religious meetings and church relations.

The following resolution was adopted May 12, 1920, by the cabinet:  
To the President and Faculty of the

Worcester Polytechnic Institute:

Whereas, There has been, during recent years, much sentiment in favor of again holding Student Assemblies, and, Whereas, The action of the Tech Council taken last fall did not produce the desired results, and,

Whereas, In our opinion, such an Assembly would foster Christian principles, Tech spirit, and world outlook, therefore, be it

Resolved, by the Cabinet of the Worcester Polytechnic Institute Young Men's Christian Association, in regular meeting assembled.

That, In our opinion, a Student Assembly should be held once a week on either Tuesday, Wednesday, Thursday or Friday morning from 11:30 to 12 o'clock, in the gymnasium.

That all classes that morning start one-half hour earlier, i. e., have 8 o'clock classes start at 7:30.

That there be singing both of hymns and Tech songs.

That attendance be compulsory for all students and expected of the Faculty and Instructors.

That talks be given by members of the Faculty Alumni, or others having an interesting and worthy message.

That it be presided over by the President of the Institute or some one appointed by him.

### E. E. DEPT. NOTES

Many members of the present Junior class have secured positions for work during the summer through the E. E. Department. D. P. Ashley, M. W. Graff, I. R. Smith, and P. D. Woodbury are to be employed by the Joseph Campbell Co. of Camden, N. J. C. F. Bolles and C. E. Skroder are to work at the Institute on the railway test car. R. E. Chapman, E. D. Johnson, R. A. Lane and G. F. Woodward have positions with the Worcester Electric Light Co. E. I. Burleigh is to be employed by the Massachusetts Oilless Bearing Co. of Worcester, and R. R. Jenness by the General Electric Co.

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## COMMENCEMENT

This year's commencement was planned with the idea of making it by far the most complete and interesting of all commencements since pre-war days. The Commencement Committee, with Ray Heath as chairman, worked industriously, and succeeded in their object; for the program they evolved kept everyone busy every minute of the week up to the night of Thursday, June 10th, when everything was all over.

On Sunday, the 6th, came a reception at the house of President and Mrs. Hollis to the Baccalaureate preacher, the trustees, the faculty and the members of the graduating class. This was followed at 4:00 P. M. by the Baccalaureate sermon, of which there is a more complete account elsewhere.

The Theatre Party which was scheduled for Monday night did not materialize.

Several events were set for Tuesday. The first was a tennis match with Clark, for which a Faculty-Senior match was substituted. In the afternoon a ball game was held, two teams being picked from among those present. Runs were counted by tens,—in fact nobody seems to know who won. Tuesday evening the Thirtieth Annual Meeting of the W. P. I. Chapter of Sigma Xi was held in the E. E. Lecture Hall. The Chapter and the attending graduates and alumni were addressed by Dr. Edward G. Boring of Clark University. His subject was "Testing Intelligence," and dealt with the tests applied in the army camps during the war to determine the mental conditions of the masses of men entering the various army camps. Dr. Boring was one of the psychologists who devised the army tests and was in charge of this work at Camp Upton.

Wednesday morning was devoted to inspection of the shops and laboratories by the alumni. Class Day Exercises were held at 2:30 P. M. in the vicinity of the sun dial before Boynton Hall. The exercises opened with an address of welcome, delivered by Malcolm Arthur, President of the class. This was followed by the Sciotheric Oration, given by Donald T. Canfield. Burton W. Marsh next told the History of the class, after which everybody sang the Alma Mater. The assemblage then adjourned to the gym for the Planting of the Ivy, Winthrop S. Lawrence making the oration. From 4:30 to 5:30 President and Mrs. Hollis held a reception for the alumni, graduates and their friends. All the fraternities kept open house from this time up to 7:00 P. M. At 9:00 P. M. the most prominent social event of the week, the Senior Dance, was held at the gym. The dance was attended by the graduating class and the Junior Marshals, about a hundred couples all told. Music was furnished by the Worcester Variety Orchestra. The success of the dance was due in a large part to the Junior Marshals, who made all arrangements for the affair. The decorations were very beautiful, palms, evergreens, banners and soft lights transforming the gym into a veritable garden. The dance lasted until two in the morning. The patrons and patronesses were the following members

of the faculty: Pres. and Mrs. Hollis, Prof. and Mrs. Bird, Prof. and Mrs. H. B. Smith, Prof. and Mrs. French, Prof. and Mrs. Jennings, Prof. and Mrs. Duff, Prof. and Mrs. Haynes.

On Thursday morning at 10:00 A. M. the climax of 1920's four years of hard work was reached, when the graduates, very dignified looking in their caps and gowns, marched into the gym to receive their sheepskins. The Reverend Maxwell Savage opened the exercises with an invocation. Following this came the Commencement Day Address by President G. Stanley Hall, of Clark University, the subject of his talk being "Psychology and Industry." Prof. A. L. Smith then read off the names of the candidates for degrees, each man coming forward and receiving his diploma from the President of the Institute. Five professional degrees were awarded, and eighty-six bachelor's degrees. One of the latter was granted to Winfield Putnam, a member of the Class of 1917, who was killed in the service. The Hon. Charles G. Washburn, President of the Corporation, then awarded the prizes for scholarship, of which there were six. That for being first in the class went to Blodgett; two Electrics, Marks and Wilby; two Chemists, Lawton and Hill; and one Civil, Marsh, also received prizes. The exercises closed with a benediction, pronounced by Dr. Savage. At 2:00 P. M. the Alumni Banquet was held in the gym, attended by the alumni, with the graduates as guests. The banquet, with the speeches which followed, lasted through most of the afternoon. The Seniors held their class banquet in the evening at the Bancroft, while several other classes had reunion banquets at the same time. With these banquets the events of graduation came to a close.

## A. A. COUNCIL MEETING

The regular meeting of the Athletic Association was held June 3, 1920, and the following business was transacted:

Considerable discussion arose as to the coaches for the different branches of sports for next year and it was left to the discretion of Professor Carpenter to secure Mr. Blake for football. The coaches for the baseball team and the basketball team were not selected.

The following men were voted their baseball "W's": Capt. Kittredge, Capt. (elect) Campbell, Stoughton, Morse, Titcomb, R. Mason, A. Mason, Myers, Marsh, Berry, Hunt, Bagley, and Mgr. Tenney.

C. A. Callahan was elected manager for 1921. The matter of assistant manager was left until next meeting.

"W." in track: Pickwick, Hall, Lyman, The following men were given their Carter, Bushnell, Manning, Dudley, Nelson, Whiteman, Capt. Garland, White, Trombley, Lundgren, Hunt, F. K. Brown, and Mgr. Root. Pearson was elected track manager for the next year with P. K. White as his assistant.

It was also voted that the following men be given their rifle "W.": Dodkin, Ellsworth, Cushman, E. S. Thayer.

E. T. Larsen, '22, has been appointed on the cabinet as chairman of the voluntary study department.



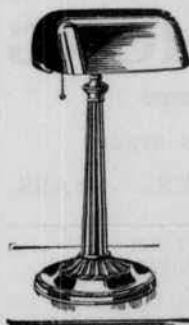
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### PROFESSOR GODDARD, '08, AND HIS ROCKET

The papers recently have been publishing articles about Professor Robert H. Goddard and his rocket, which, it is hoped, will, when perfected, reach the moon.

Professor Goddard graduated from this Institute with the class of 1908. He was instructor in the Physics department for a year while he was working for his doctor's degree at Clark. He then taught at Cornell and at Clark college and was made head of the Physics department at the latter institution in 1914.

A fact that Professor Goddard is proud of and which he is never the least shy in making known is that he secured his early training at Worcester Tech. After he graduated, many of his experiments were carried out in that little magnetic laboratory at the foot of Boynton Hill. Often the explosions resounding from within would cause those on the Hill to poke their heads out the windows and look around for the remains of the professor.

The rocket which he has invented was first suggested to him by the seventy-mile gun used by the Germans in bombarding Paris. He improved on that by his original idea of the series of telescoped rockets until he perfected one with a range of 200 miles. Then he experimented with combustible materials and finally succeeded in attaining a velocity of 8000 feet per second, the highest yet reached by matter in any appreciable quantity. From these he has invented a rocket, which by means of a series of charges, can carry instruments to very high altitudes where there is little or no air. A self-operating parachute will insure a safe drop back to earth. An automatic device is connected with photo-sensitive cells on the side of the rocket. The light from any body such as the moon, when the rocket is headed toward this body, would keep the rocket in the desired direction by the effect of the light on these cells.

Professor Goddard's first tests will be made in this city in late July or in August. We may then look forward to a greater knowledge of what lies above us.

### C. E. NOTES

Mr. Herbert F. Taylor, '12, is located in the office of the City Engineer, Cleveland, Ohio, and is engaged upon the construction of new sewage disposal works, and is also interested in the study of water supply and purification, street paving and general city engineering. After graduation, Mr. Taylor was five years with the Northern Pacific Ry., advancing from rodman, through the positions of material clerk, topographer, transition, to field engineer in charge of grade separation in Spokane, Wash.

He served two years in the A. E. F. as captain in the 319th Engineers, and after return to this country was engaged in a study of housing for a Commission in Amesbury, Mass.

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